

8. A method of detecting a pressure in a pressure line with a non-intrusive pressure transducer, the pressure transducer including a clamping cuff and a sensor fastener, the clamping cuff including: including a first arm having a first arm first end and a first arm second end, a second arm having a second arm first end and a second arm second end, the first and second cuff arms being joined at the first arm first end and the second arm first end; and a sensor fastener to connect the first arm second end and the second arm second end, the sensor fastener including at least one attached strain gage, the method comprising:

attaching the clamping cuff to the pressure line by fitting the first and second arms about the outer diameter of the pressure line;

connecting the first arm second end and the second arm second end with the sensor fastener to form a clamping cuff assembly;

allowing the clamping cuff assembly to expand and contract as the pressure increases and decreases and the pressure line expands and contracts accordingly, a length of the sensor fastener changing as the clamping cuff assembly expands and contracts; *and*

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detecting the length of the sensor fastener via the at least one strain gage, ~~and~~